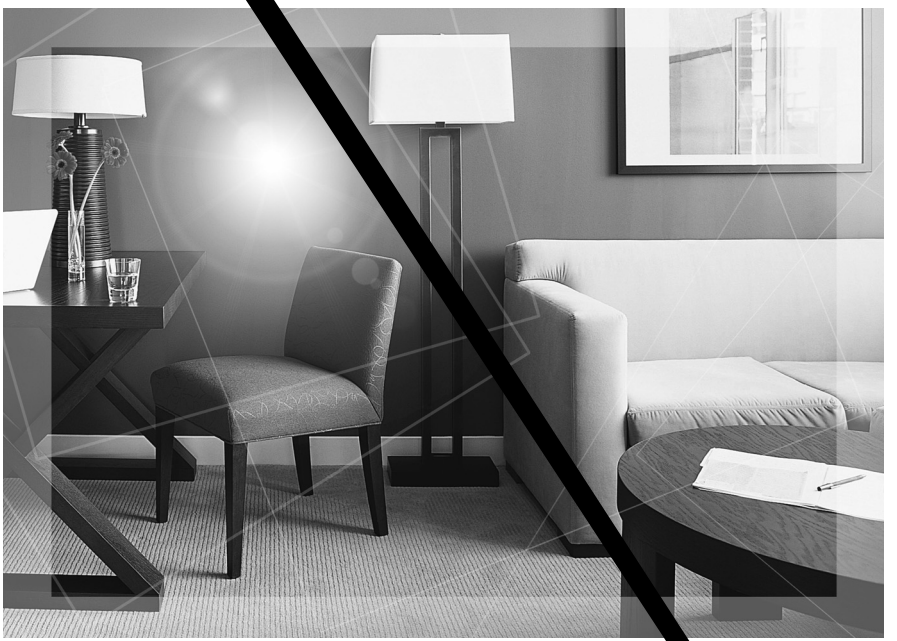
Panasonic

2.4 GHz Digital Cordless Answering System

Operating Instructions

Model No. KX-TG2343

Pulse-or-tone dialing capability



The unit is Caller ID compatible. To display the caller's name and phone number, you must subscribe to Caller ID service.

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for 6 hours before initial use.

Panasonic World Wide Web address: http://www.panasonic.com
for customers in the USA or Puerto Rico

Thank you for purchasing your new Panasonic cordless telephone.

Please read the IMPORTANT SAFETY INSTRUCTIONS on page 66 before use. Read and understand all instructions.

Caller ID and Call Waiting Service, where available, are telephone company services. After subscribing to Caller ID this phone will display a caller's name and phone number. Call Waiting Caller ID, which displays a second caller's name and phone number while the user is on another call, requires a subscription to both Caller ID and Call Waiting with Caller ID Services (CWID).

Attach your purchase receipt here.

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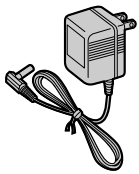
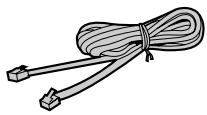
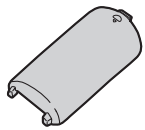
Accessories (included)

For extra orders, call 1-800-332-5368.
For hearing or speech impaired TTY users, call 1-866-605-1277.

☐ AC Adaptor (p. 9) Order No. PQLV1Z (PQLV1)  one	☐ Telephone Line Cord (p. 9) Order No. PQJA10075Z  one
☐ Battery (p. 10) Order No. HHR-P104 one	☐ Handset Cover (p. 10) Order No. PQKK10140Z3 (Blue) PQKK10140Z4 (Taupe) PQKK10140Z1 (White)  one
☐ Belt Clip (p. 52) Order No. PQKE10375Z2 (Blue/Taupe) PQKE10375Z1 (White) one	☐ Shoulder Rest Attachment (p. 52) Order No. PQKE10364Z1 one

For Best Performance

Battery Charge

The handset is powered by a rechargeable Nickel-Metal Hydride (Ni-MH) battery. Charge the battery for **6 hours** before initial use (p. 10).

Base Unit Location/Noise

Calls are transmitted between the base unit and handset using wireless radio waves. **For maximum distance and noise-free operation,** the recommended base unit location is:

Note:

- If you use the handset near a microwave oven which is being used, noise may be heard from the receiver or the speaker. Move away from the microwave oven and closer to the base unit.
- If you use the handset near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

Contents

Preparation

Location of Controls 6

Installation 9

Connections 9

Installing the Battery in the Handset 10

Battery Charge 10

Programmable Settings 12

Programming Guidelines . 12

Function Menu Table 13

Date and Time 14

Display Language 15

Dialing Mode 15

Line Mode 16

Auto Talk 16

Ringer Volume 17

Ringer Tone 18

LCD Contrast 18

Preparing the Answering System 19

Greeting Message 19

Caller's Recording Time . . 20

Number of Rings 21

Message Alert 22

Telephone System

Making Calls 23

Answering Calls 26

Caller ID Service 27

Using the Caller List 28

Viewing the Caller List . . . 28

Calling Back from the Caller List 29

Editing the Caller's Phone Number 30

Caller ID Number Auto Edit 31

Storing Caller Information in the Phone Book 32

Erasing Caller Information . 33

Phone Book 34

Storing Names and Numbers 34

Dialing from the Phone Book 36

Chain Dial 37

Editing an Item in the Phone Book 38

Erasing an Item in the Phone Book 38

Special Features 39

Handset Locator 39

Temporary Tone Dialing (For Rotary or Pulse Service Users) 39

Muting Your Conversation . 39

For Call Waiting Service Users 39

Using the PAUSE Key (For PBX Line/Long Distance Calls) 40

FLASH Button 40

Key Tone 41

Re-registering the Handset 41

Contents

Answering System

Automatic Answering Operation 42
Setting the Unit to Answer Calls 42
Monitoring Incoming Calls . 43
Listening to Messages 44
Using the Base Unit 44
Using the Handset (Remote Operation) 45
Erasing Messages 47
Remote Operation from a Touch Tone Phone 48
Remote Code 48
Voice Menu 49
Direct Remote Operation . . 50

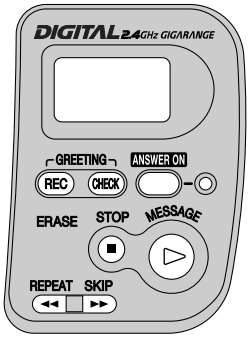
Useful Information

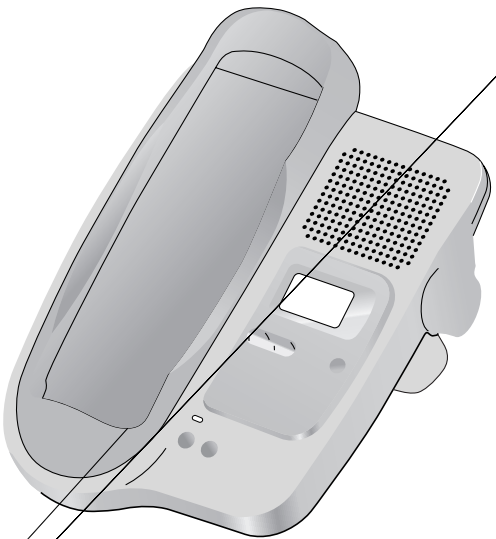
Wall Mounting 51
Belt Clip 52
Shoulder Rest Attachment . . 52
Optional Headset 53
Direct Commands 54
If the Following Appear on Your Display... 56
Troubleshooting 57
openLCR Service for Caller IQ 62
Turning Caller IQ on or off 62
Downloading Data 63
Important Safety Instructions 66
FCC and Other Information . 68
Index 71
Warranty 73
Specifications 75

Important:
Throughout these Operating Inhoot4. Warra g300.06

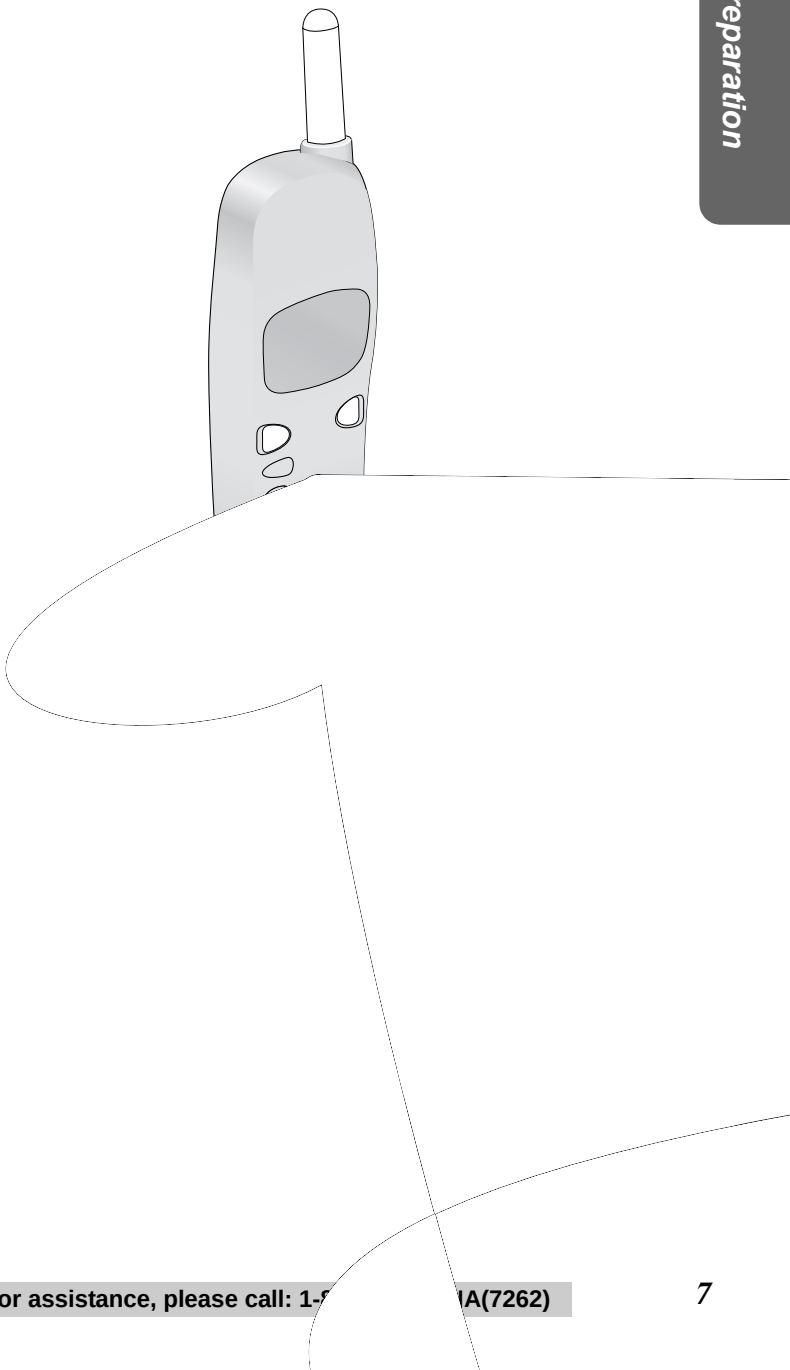
Location of Controls

Base unit



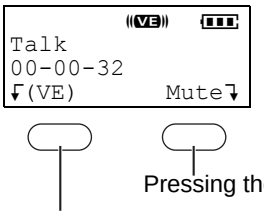


Handset



Location of Controls

Handset soft keys



Two soft keys are used to select functions displayed directly above each key. Functions displayed above the keys will change depending on the state of use.

On this sample display, "(VE)" and "Mute" are displayed above soft keys.

Pressing the right soft key selects mute "Mute".

Pressing the left soft key selects Voice Enhancer "(VE)".

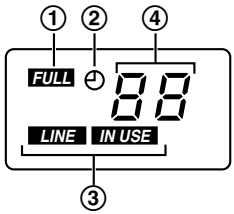
- When a function name does not appear above a soft key, the soft key has no function.

Handset navigator key

Scrolls up **[▲]** and down **[▼]** the function menu, the Caller List and the phone book.
Increases **[▲]** or decreases **[▼]** the handset ringer and receiver/speaker volumes.

Throughout these Operating Instructions:
- The soft keys are indicated by what is displayed above the keys.
  Ex. "Press **Mute**." indicates "Press the soft key below Mute".
- The navigator key is indicated by the arrows **[▼]** or **[▲]**.

Base unit display



① "FULL" flashes when no new messages can be recorded. Erase unnecessary messages (p. 47).

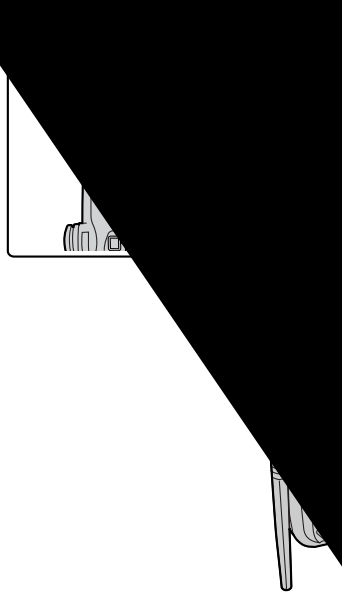
② "◴" flashes until you set the date and time, and flashes after a power failure. If it is flashing, set the date and time (p. 14).

③ "LINE IN USE" functions as follows.

Off (invisible)	The line is free.
On	The line is being used.
Flashing	A call is on hold on the handset or the Answering System is answering a call (p. 42).
Flashing rapidly	A call is being received.

- "IN USE" displays when a handset is operating the Answering System.

④ Message counter shows:
—the total number of recorded messages. If the recording time is set to "Greeting only", "90" will be displayed (p. 20).
—the selected volume level while you are adjusting the volume (p. 19).
—" E " when your greeting message was not recorded correctly (p. 19).



- USE ONLY WITH Panasonic AC ADAP
- The AC adaptor must remain connected a
  feel warm during use.)
- If your unit is connected to a PBX which does
  access Caller ID services.
- The unit will not work during a power failure. We
  standard telephone to the same telephone line or t
  using the Panasonic KX-J66 T-adaptor.

Insta

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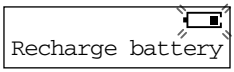
Recharge

Recharge the battery when:
—"Recharge battery" is displayed on the handset,
—"▭" flashes, or
—the handset beeps intermittently while it is in use.



- The display will continually indicate "Recharge battery" and/or "▭" will flash when the handset battery is charged for less than 15 minutes and the handset is lifted off the base unit.
- If the battery has been discharged, the handset will display "Charge for 6h" and "▭" when you place the handset on the base unit. The handset will not work unless the battery is charged. Continue charging.

Battery replacement:
If you cleaned the charge contacts and fully charged the battery, but after a few telephone calls, "Recharge battery" is displayed and/or "▭" continues to flash, or "Charge for 6h" and "▭" are displayed, the battery may need to be replaced. Please order a new Panasonic HHR-P104 battery at the telephone number shown on page 2. To replace the battery, see page 10.

A nickel metal hydride battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

Battery information

After your Panasonic battery is fully charged, you can expect the following performance:

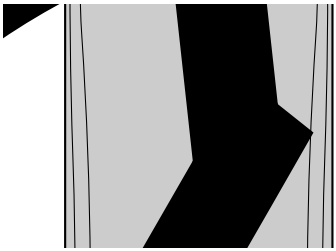
Operation	Operating time
While in use (TALK)	Up to 5 hours
While not in use (Standby)	Up to 11 days

- A fully charged battery will give you up to 5 hours of continuous talk time, or keep your handset in Standby mode to receive incoming calls for up to 11 days (if no phone calls are made). Battery power is consumed whenever the handset is off of the base unit, even when the handset is not in use. The longer you leave the handset off of the base unit, the time you can actually talk on the handset will be shortened. Actual battery performance depends on a combination of how often the handset is in TALK mode and how often it is in Standby mode.
- If the battery is fully charged, you do not have to place the handset on the base unit until "Recharge battery" is displayed and/or "▭" flashes. This will maximize the battery life.
- If you want to keep the battery fully charged at all times, place the handset on the base unit when the handset is not used. The battery cannot be overcharged.
- **Clean the charge contacts of the handset and the base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.

Programmable Settings

Programming Guidelines Handset

This unit has several programmable functions which can be selected from the function menu on the display (p. 13).



How to select a function item from the menu

Make sure the handset and base unit are not being used. The handset must be operated near the base unit and while off the base unit.

1 Press **[MENU]**.
- The main menu is displayed (p. 13).

2 Scroll to the desired item by pressing **[▼]** or **[▲]**.

3 Press **Select** to select the desired item.

4 If the item has a sub-menu, select the menu item (p. 13). Repeat steps 2 and 3 until the desired item is displayed. If the item has no sub-menu, go to step 5.

5 Select the desired setting by pressing **[▼]** or **[▲]**, then press **Save** to save your setting.
- A confirmation tone will be heard and the setting will be saved.

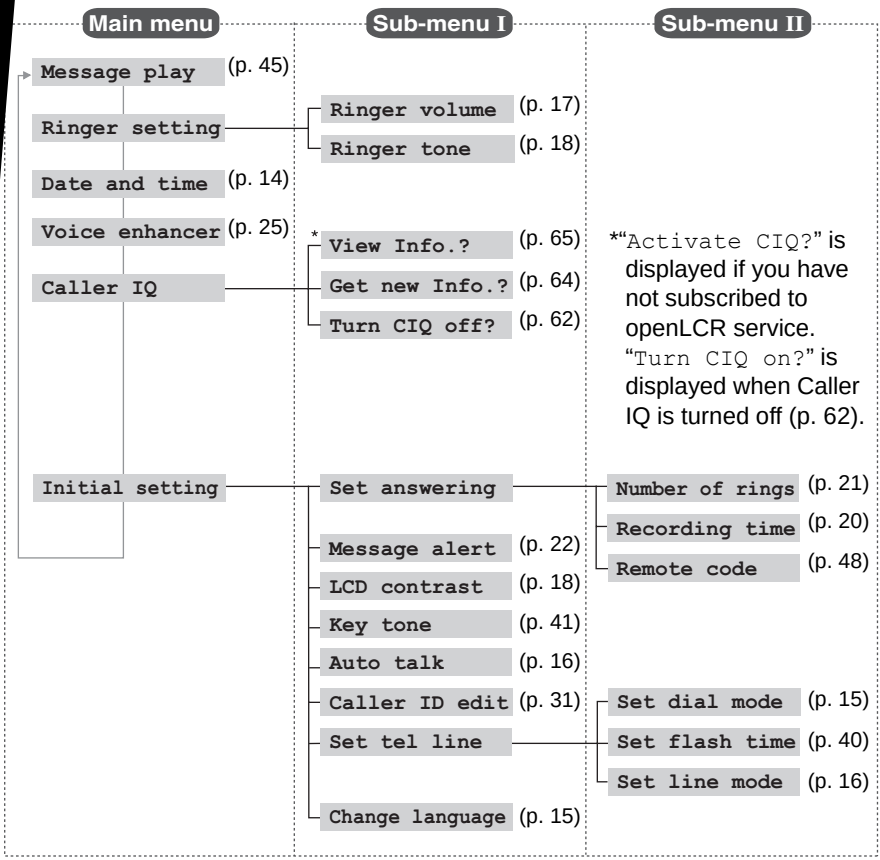
6 Press **[OFF]** to exit programming mode.

- To go back to the previous menu, press **Back**, or press **Select** while "---(Go back)----" is displayed. If you press this key in the main menu, the unit will exit programming mode.
- After programming is complete, the display will return to the main menu or the sub-menu depending on which menu the selected item is located. (See the menu table on page 13.)
- You can exit programming mode at any time by pressing **[OFF]**.
- If you do not press any buttons for 60 seconds, the handset will exit programming mode.
- If the unit detects a problem, an error message will be displayed (p. 56) and/or error beeps will sound.

unction Menu Table Handset

u can use the following functions to customize your unit. See the corresponding ges for function details.

After pressing **[MENU]**, you can also program menu items directly by pressing (**[0]** to **[9]**, and **[#]**) instead of using the soft keys (p. 54–55).



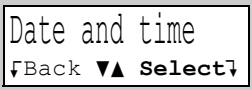
*"Activate CIQ?" is displayed if you have not subscribed to openLCR service. "Turn CIQ on?" is displayed when Caller IQ is turned off (p. 62).

Date and Time Handset

We recommend you set the date and time so that the unit will announce the day and time each message was recorded when you play back messages.

1 Press **[MENU]**.

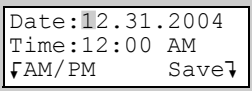
2 Scroll to "Date and time" by pressing **[▼]** or **[▲]**, then press **Select**.



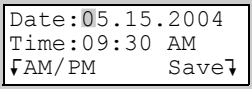
3 ① Enter 2 digits each for the month, day, and year. (Ex. To set May 15, 2004, enter "05 15 04".)

② Enter 4 digits for the time (hour and minute). (Ex. To set 9:30, enter "0930".)

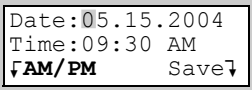
- If you enter a wrong number, press **[▼]** or **[▲]** to move the cursor to the incorrect number. Enter the correct number.



Example



4 Select "AM" or "PM" by pressing **AM/PM**.



5 Press **Save**.

- The date and time are set and "◴" disappears from the base unit display.
- If the handset beeps 3 times, the date and time were not set correctly. Start again from step 3.

6 Press **[OFF]**.

- When entering the time in step 3, you cannot enter numbers greater than 12. **Do not use military time.** (To set 13:00 hours, enter "0100", then select "PM" in step 4.)

The date and time may be incorrect after a power failure. When "◴" flashes on the base unit display, set the date and time again.

To confirm the date and time, repeat steps 1 and 2 above.

- The current date and time are displayed. When finished, press **[OFF]**.

For Caller ID service users (p. 27)

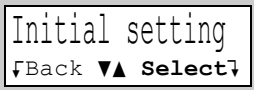
- When a call is received, Caller ID information adjust the date and time if the time is incorrect.
- Caller ID information will automatically adjust the date and time for daylight saving time.
- If the date and time has not previously been set, Caller ID information will not adjust the date and time.

Display Language Handset

You can select either “English” or “Spanish” as the display language. The factory preset is “English”.

1 Press **[MENU]**.

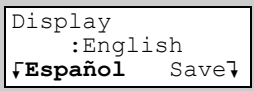
2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.



3 Scroll to “Change language” by pressing **[▼]** or **[▲]**, then press **Select**.

4 To change from English to Spanish, press **Español**.
To change from Spanish to English, press **English**.

- The display changes to the selected language.
- You can also select a language by pressing **[▼]** or **[▲]**.



5 When Spanish is selected, press **Salvar**, then press **[OFF]**.
When English is selected, press **Save**, then press **[OFF]**.

- If you select a language you cannot read, change the display language again using direct commands (p. 55).

Dialing Mode Handset

If you have touch tone service, set the dialing mode to “Tone”. For rotary or pulse service, set to “Pulse”. The factory preset is “Tone”.

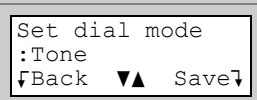
1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to “Set tel line” by pressing **[▼]** or **[▲]**, then press **Select**.

4 Press **Select** at “Set dial mode”.

5 Select “Pulse” or “Tone” by pressing **[▼]** or **[▲]**.



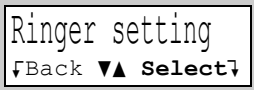
6 Press **Save**, then press **[OFF]**.

Ringer Volume Handset

You can select the handset ringer volume to high, medium, low, or off. The factory preset is HIGH. If the handset ringer is turned off, the handset will not ring for outside calls.

1 Press **[MENU]**.

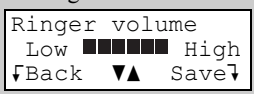
2 Scroll to "Ringer setting" by pressing **[▼]** or **[▲]**, then press **Select**.



3 Press **Select** at "Ringer volume".

4 Select the desired volume level by pressing **[▼]** or **[▲]**.
- The volume will change and ring.
- The number of steps indicates the volume level.
- **To turn the ringer off,** press **[▼]** repeatedly until "Off ?" is displayed.

Ex. High



5 Press **Save**.

- If the handset ringer is turned off, "Ringer off" will be displayed while not in use. If the handset is off the base unit when there are missed calls or new messages (p. 45), "Ringer off" is not displayed.
- You can adjust the ringer volume while an outside call is ringing. Press **[▼]** or **[▲]** while the handset is ringing.

Temporary ringer off

While the handset is ringing for an outside call, you can turn the ringer off temporarily by pressing **[OFF]**. The handset will ring again as normal the next time a call is received.

Ringer Tone Handset

You can set the handset ringer to use one of 7 ringer patterns for outside calls. “Tone 1” to “Tone 3” are bell ringer patterns. “Melody 1” to “Melody 4” are melody patterns. The factory preset is “Tone 1”.

- You cannot change the ringer tone for intercom calls.
- If you subscribe to a Distinctive Ring Service (such as IDENTA-RING) from your telephone company with 2 or 3 consecutive rings, select a bell ringer pattern (Tone 1 to 3). If you select a melody pattern, you will not be able to distinguish lines by their ringers.
- If you select one of the melody ringer patterns, the ringer will continue to sound for several seconds if:
  — the caller hangs up before you answer the call, or
  — another person answers the call using another phone connected on the same line.

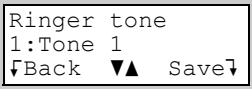
1 Press **[MENU]**.

2 Scroll to “`Ringer setting`” by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to “`Ringer tone`” by pressing **[▼]** or **[▲]**, then press **Select**.

4 Select the desired ringer tone by pressing **[▼]** or **[▲]**.

- The handset will ring and the ringer tone will change. If the ringer volume has been turned off, the handset will not ring (p. 17).
- You can also select the ringer tone by pressing **[1]** to **[7]**.



5 Press **Save**, then press **[OFF]**.

LCD Contrast Handset

There are 6 levels of LCD contrast. The factory preset is “level 3”.

1 Press **[MENU]**.

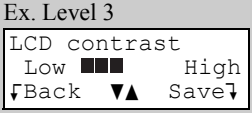
2 Scroll to “`Initial setting`” by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to “`LCD contrast`” by pressing **[▼]** or **[▲]**, then press **Select**.

4 Select the desired contrast by pressing **[▼]** or **[▲]**.

- The contrast will change.

Ex. Level 3



5 Press **Save**, then press **[OFF]**.

Preparing the Answering System

Greeting Message Base Unit

You can record a personal greeting message of **up to 2 minutes**. If you do not record your own message, one of two pre-recorded greetings will be played for callers (p. 20).

The total recording time of all messages (greeting and incoming) is **about 15 minutes**.
We recommend you record **a brief greeting message** in order to leave more time for recording new messages.

To record a greeting message

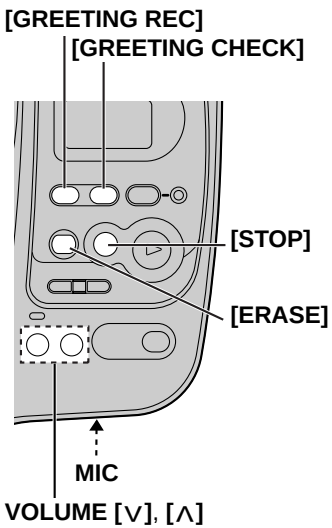
Sample greeting message
"Hello, this is (your name and/or number). Sorry, I cannot take your call. Please leave a message after the beep. Thank you."

1 Press **[GREETING REC]**.
- "To record greeting, press RECORD again" is heard.

2 Within 10 seconds, press **[GREETING REC]** again to record your greeting.

3 After the long beep, talk clearly, about 20 cm (8 inches) away from the **MIC** (microphone).
- The elapsed recording time is displayed.
- If you record for over 2 minutes, the unit will stop recording.

4 When finished, press **[GREETING REC]** or **[STOP]**.
- To change the greeting, start again from step 1.



- If "E" is displayed, 6 beeps sound and "Your greeting was not recorded. Record your greeting again." is announced, start again from step 1.

To adjust the speaker volume, press **VOLUME [∨]** or **[∧]** during playback.

- 9 levels (0–8) are available while using the Answering System. The level is displayed on the base unit.

To review the greeting

Press **[GREETING CHECK]**.

To erase the greeting

Press **[GREETING CHECK]**, then press **[ERASE]** while the recorded message is being played.

• The unit will answer calls with a pre-recorded greeting (see below).

Pre-recorded greeting

If you do not record a greeting (p. 19), one of two greetings will be played when a call is received, depending on the caller's recording time (see below).

To review the pre-recorded greeting, press **[GREETING CHECK]**.

• A pre-recorded greeting will be played as follows:

■ When the recording time is set to "1 minute", "2 minutes" or "3 minutes":
"Hello, we are not available now. Please leave your name and phone number after the beep. We will return your call."

• If recording time runs out, the unit will automatically switch to the "Greeting only" mode (see below), and no new messages will be recorded.

■ When the recording time is set to "Greeting only":
"Hello, we are not available now. Please call again. Thank you for your call."

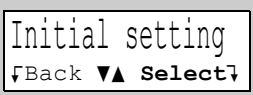
Flash Memory Message Backup (Message storage)
Messages stored in memory will not be affected by power failures. All messages are saved until you erase them.

Caller's Recording Time Handset

You can select "1 minute", "2 minutes", "3 minutes" or "Greeting only" for the caller's recording time. The factory preset is "3 minutes".

1 Press **[MENU]**.

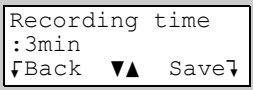
2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.



3 Press **Select** at "Set answering".

4 Scroll to "Recording time" by pressing **[▼]** or **[▲]**, then press **Select**.

5 Select the recording time by pressing **[▼]** or **[▲]**.
- You can also select the recording time by pressing **[1]**, **[2]**, **[3]** or **[0]** (Greeting only).



6 Press **Save**, then press **[OFF]**.

If you select "Greeting only", the unit will answer calls with the greeting message, and then hang up. The unit will not record any incoming messages. The base unit will display "go" instead of the number of messages.

Number of Rings Handset

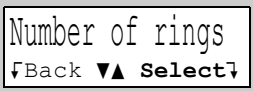
You can select the number of times the unit rings before the Answering System answers a call, from "2" to "7" or "Toll saver"*. The factory preset is "4".

1 Press **[MENU]**.

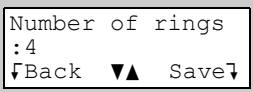
2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

3 Press **Select** at "Set answering".

4 Press **Select** at "Number of rings".



5 Select the number of rings by pressing **[▼]** or **[▲]**.
- You can also select the number of rings by pressing **[0]** (Toll saver*), or **[2]** to **[7]**.



6 Press **Save**, then press **[OFF]**.

***Toll saver**
When you call the unit from a remote operation, the number of rings will tell you if there are any new messages. If the unit answers on the 2nd ring, there is at least one new message. If the unit answers on the 4th ring, there are no new messages. To save the toll charges for the call, hang up immediately when you hear the 3rd ring. The 3rd ring indicates that there are no new messages.

Message Alert Handset

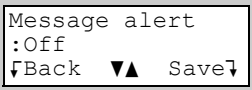
You can select whether or not the Ringer/Message Alert indicator on the handset will flash slowly when new messages have been recorded (p. 45). The factory preset is OFF.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to "Message alert" by pressing **[▼]** or **[▲]**, then press **Select**.

4 Select "On" or "Off" by pressing **[▼]** or **[▲]**.



5 Press **Save**, then press **[OFF]**.

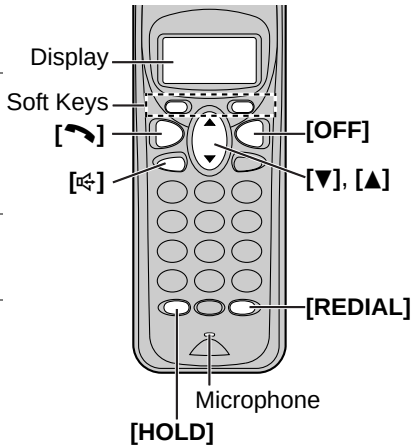
- The Ringer/Message Alert indicator will not flash for new messages while the handset is in use.
- The Ringer/Message Alert indicator acts both as a ringer indicator and as a message alert indicator. This indicator will flash rapidly when a call is received whether this feature is on or off.
- Battery operating time will be shortened when using this feature (p. 11).

Making Calls

1 Press **[ ]**.
- "Talk" is displayed.

2 Dial a phone number.
- The dialed number is displayed.
- After a few seconds, the display will show the length of the call.

3 To hang up, press **[OFF]** or place the handset on the base unit.



To have a hands-free phone conversation

1 Press **[ ]**.
- "SP-phone" is displayed.

2 Dial a phone number.
- The dialed number is displayed.
- After a few seconds, the display will show the length of the call.

3 When the other party answers, talk into the microphone.

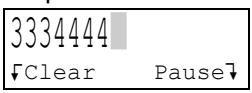
4 To hang up, press **[OFF]** or place the handset on the base unit.

Hands-free Digital Duplex Speakerphone

For best performance, please note the following:
- Talk alternately with the other party in a quiet room.
- If you or the other party has difficulty hearing, press **[▼]** to decrease the speaker volume.
- While talking using **[ ]**, you can switch to a hands-free phone conversation by pressing **[ ]**. To switch back to the receiver, press **[ ]**.

To dial after confirming the entered number

1 Enter a phone number.



- If you misdial, press **Clear**. Enter the correct number.
- If a pause is required when dialing, press **Pause** where needed (p. 40).
- To cancel, press **[OFF]**.

2 Press **[ ]** or **[ ]**.

3 To hang up, press **[OFF]** or place the handset on the base unit.

To adjust the receiver/ speaker volume during a conversation

There are 3 volume levels for the receiver and 6 volume levels for the speaker.

To increase volume, press **[▲]**.
To decrease volume, press **[▼]**.

Ex. Receiver volume: High
Speaker volume: Level 6

- The display shows the current volume setting.
- If you try to increase/decrease volume when it is at the maximum/ minimum level, the handset will beep 3 times.

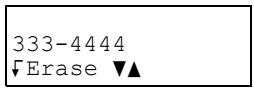
To redial the last number dialed

Press **[ ]** or **[ ]**, then press **[REDIAL]**.

To redial using the redial list (Memory Redial)

The last 5 phone numbers dialed are stored in the redial list.

1 Press **[REDIAL]**.



- The last number dialed is displayed.

2 Scroll to the desired number by pressing **[▼]** or **[▲]**.

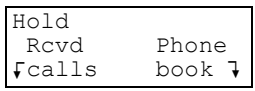
- You can also scroll down through the list by pressing **[REDIAL]**.
- To exit the list, press **[OFF]**.

3 Press **[ ]** or **[ ]**.

- **To erase an item,** scroll to the item then press **Erase**.
- If "No items stored" is displayed, the list is empty.

To put a call on hold

Press **[HOLD]** during a conversation.



To return to the call, press **[ ]** or **[ ]**.

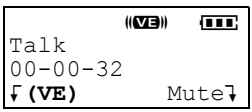
- If another phone is connected on the same line (p. 9), you can also take the call by lifting its handset.
- If a call is kept on hold for 6 minutes, an alarm tone will start to sound and the Ringer/Message Alert indicator will start to flash rapidly. After 4 additional minutes on hold, the call will be disconnected.

Voice Enhancer Technology

Panasonic's Voice Enhancer Technology clarifies the voice of the person you are talking to, reproducing a more natural-sounding voice that is easier to hear and understand.
Voice Enhancer Technology can be turned on or off. The factory preset is OFF.

- Depending on the condition and quality of your telephone line, this feature may emphasize existing line noise. If it becomes difficult to hear, turn this feature off.

To turn this feature on, press **(VE)** during a conversation.



- "(VE)" is displayed.
- **To turn this feature off,** press **(VE)** again.
  "(VE)" disappears from the display.
- After hanging up a call, the on/off setting will be retained.

When the handset is not in use, you can also turn this feature on or off by programming as follows:

1. Press **[MENU]**.
2. Scroll to "Voice enhancer" by pressing **[▼]** or **[▲]**, then press **Select**.
3. Select "On" or "Off" by pressing **[▼]** or **[▲]**.
4. Press **Save**, then press **[OFF]**.

Backlit LCD display/Lighted handset keypad

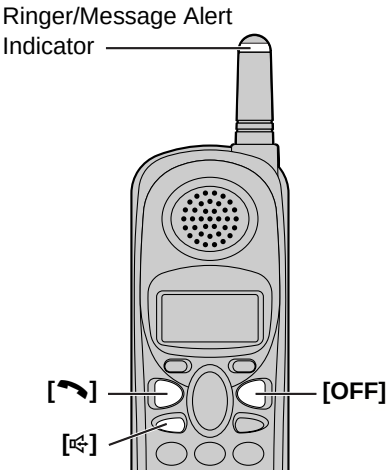
The handset display and dialing buttons will light for a few seconds after pressing a button or lifting the handset off the base unit .

Answering Calls

When a call is received, the unit rings, "Incoming call" is displayed, and the Ringer/Message Alert indicator on the handset and " LINE IN USE " on the base unit flash rapidly.
If you subscribe to Caller ID, see page 27.

1 Press **[ ]** or **[ ]**.
- You can also answer a call by pressing any button except **[▼]**, **[▲]** or **[OFF]**.

2 To hang up, press **[OFF]** or place the handset on the base unit.



Auto Talk
If the Auto Talk feature is turned on (p. 16), you can answer a call by simply lifting the handset off the base unit.

Temporary ringer off
You can turn the ringer off temporarily by pressing **[OFF]**, while the handset is ringing for an outside call. The handset will ring again as normal the next time a call is received.

- If the ringer volume is turned off, the unit will not ring (p. 17).

Caller ID Service

This unit is compatible with Caller ID services offered by your telephone company. If you subscribe to Caller ID, caller names and phone numbers will be displayed and recorded in the Caller List.

How Caller ID information is displayed

When a call comes in, the unit will ring and Caller ID information will be received. The handset display will show the caller's information.*

- After you answer the call, the display will show the length of the call.

Example

ROBINSON
1-555-

*Personalized Name Display

If you receive a call from one of the same phone numbers sto
the handset will show the caller's name stored in the phone
incoming caller's name.

- If the unit does not receive Caller ID information, on
displayed:

Display	
Out of area	The caller dialed Caller ID servic
Private caller	The caller r
Long distance	The calle

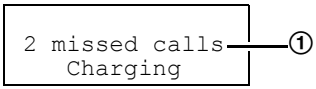
- Depending on the radio commun
display Caller ID information in
- If your unit is connected to a
access Caller ID service.
- Name display service ma
please contact your tel
- If you subscribe to bo
when a second cal
the second caller
Contact your te
verify that CW

Using the Caller List

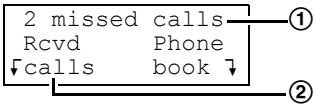
The unit can record information up to 30 different callers and store this information in the Caller List. Caller information is sorted by the most recent call to the oldest. When the 31st call is received, the information from the 1st call is deleted.

The unit will also tell you how many calls you missed while you were out or unavailable to answer the phone.

Handset on the base unit



Handset off the base unit



① The display will show the number of calls you missed.

② Press **Rcvd calls** to review other calls logged in the Caller List.

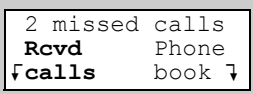
- If there are no items in the Caller List, "Rcvd calls" will not be displayed.
- After viewing the missed call entries, "missed calls" will disappear from the display.

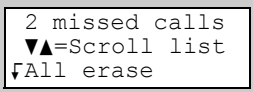
- When new messages have been recorded (p. 45), "New message" will be displayed in place of missed calls display.

Viewing the Caller List Handset

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

Ex. 2 calls missed.

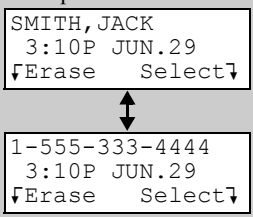




2 To search from the most recent call, press **[▼]**. To search from the oldest call, press **[▲]**.

- The caller's name, number and the time and date of the call are displayed. Name and phone number are alternately displayed as shown on the right.

Example



3 Press **[OFF]** to exit the list.

- If there is no name information for a caller and you do not store the name and phone number in the phone book, the display will only show the phone number.
- If you do not press any buttons for 60 seconds, the unit will exit the Caller List.

What "✓" means

"✓" indicates you have already viewed this calling information or answered the call. If the same caller calls again, the call entry with the "✓" will be replaced with the new call entry.

```
SMITH,JACK
 3:10P JUN.29 ✓
```

If a caller calls more than once

The number of times the same caller called is displayed ("×2" to "×9"). The date and time of the most recent call will be recorded. After viewing a caller's information, "×2" to "×9" will be replaced with "✓".

Ex. Called 2 times.

```
TURNER,CINDY
11:20A JUN.12 ×2
```

Calling Back from the Caller List Handset

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

2 Scroll to the desired caller by pressing **[▼]** or **[▲]**.

3 Press **[ ]** or **[ ]**.
- The phone number is dialed.

- In some cases, you may have to edit the number before dialing (p. 30). (Ex. You may have to delete "1" and the area code.)
- If a phone number is not displayed in the caller information, you cannot call that caller back from the Caller List.

2

[

3 Press **Selec**

4 Press **Edit** repe
shown in the desi

- Each time you press
rearranged into one of

ⓐ Phone no.

ⓑ Area code – Phone no.

ⓒ 1– Area code – Phone no.

- The order in which patterns ⓐ –
displayed depends on how the tele
number is displayed in step 2.

5 To call the edited number, press **[**

- If Caller ID Number Auto Edit is tu
numbers with the same area co
edited in the Caller List and e
- You can press **[OFF]** imme
activate the Auto Edit fe
edited.

To save the edite

- If there is no na
Book" on pa
- Even if the
saving t

- If you
will

Caller ID Number Auto Edit Handset

Once you call back an edited number (p. 30), this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call. For example, it can ignore the area code of calls originating from your area code, so that you can call these numbers from the Caller List without dialing the area code.

To activate this feature, you must edit a caller's phone number in the Caller List (p. 30) by selecting pattern ⓐ, ⓑ, or ⓒ, then make a call to that number. Calls from numbers in that area code will be edited automatically. The unit can remember up to 4 area codes to be edited according to patterns ⓐ and ⓑ.

When more than 5 area codes are edited, older area codes are reset to pattern ⓒ. Phone numbers from the 4 most recently edited area codes will be automatically edited.

You can turn this feature on or off using the handset. The factory preset is ON.

To turn Caller ID Number Auto Edit on or off

1 Press **[MENU]**.

2 Scroll to "`Initial setting`" by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to "`Caller ID edit`" by pressing **[▼]** or **[▲]**, then press **Select**.

4 Select "`Off`" or "`On`" by pressing **[▼]** or **[▲]**.

5 Press **Save**, then press **[OFF]**.

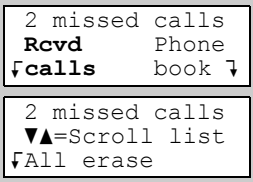
- If you fail to reach your destination when making a call, the phone number you dialed might have an incorrect pattern. Edit the phone number with another pattern (p. 30).
- When this feature is turned off, the unit will still be able to display Caller ID, but incoming Caller ID numbers will not be automatically edited.
- If you move to another area, you may need to turn this feature off to erase the previously edited area codes. To use this feature again, turn it on and reprogram the area codes you want to edit once again.

Storing Caller Information in the Phone Book

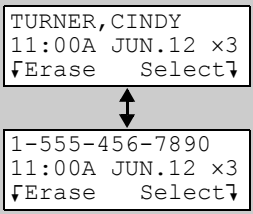
Handset

Caller names and phone numbers that are in the Caller List can be stored in the phone book.

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.



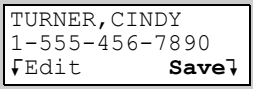
2 Scroll to the desired caller by pressing **[▼]** or **[▲]**.



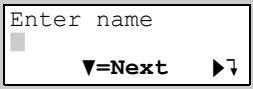
3 Press **Select**.

- If the number requires editing, see page 30.

4 Press **Save**.



- If there is no name information for the caller, "Enter name" will be displayed.
  - —You can enter a name by performing the following steps:
    (1) enter the name (p. 35),
    (2) press **[▼]**, and
    (3) press **Save**.
  - —If a name is not required, press **[▼]**, then press **Save**.
- To continue storing other items, repeat from step 2.
- To exit programming mode, press **[OFF]**.

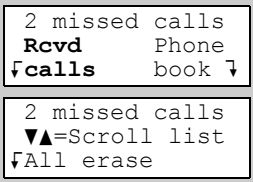


- You cannot store Caller List item in the phone book if a phone number is not displayed.

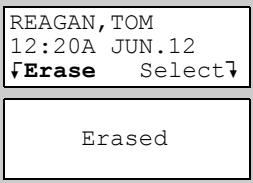
Erasing Caller Information Handset

To erase a specific caller

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.



2 Scroll to the desired caller by pressing **[▼]** or **[▲]**, then press **Erase**.
- To erase other items, repeat step 2.
- To exit the Caller List, press **[OFF]**.

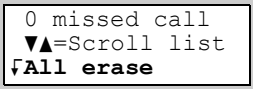


To erase all entries

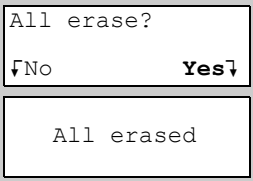
Before erasing all entries, make sure that you have viewed all missed calls.

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

2 Press **All erase**.



3 Press **Yes**.
- All entries in your Caller List are erased.



- To cancel erasing, press **No** after step 2.

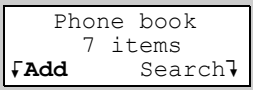
Phone Book

The handset can store up to 30 names and phone numbers in its phone book. You can make a call by selecting a name or number from the phone book.

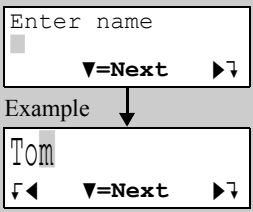
Storing Names and Numbers Handset

1 Press **Phone book**.

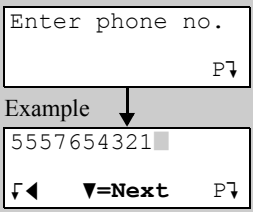
2 Press **Add**.
- The display will show the number of stored items.



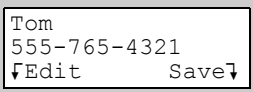
3 Enter a name of up to 16 characters with the dialing buttons (**[0]** to **[9]**) (p. 35), then press **[▼]**.
- If a name is not required, press **[▼]** then go to step 4.



4 Enter a phone number of up to 32 digits.
- Each time you press ◀, a digit is erased. To erase all of the digits, press and hold ◀.
- If a pause is required when dialing, press **P**. A pause is stored in a phone number as one digit (p. 40).



5 Press **[▼]**.
- If you want to change the name, press **Edit**. The display returns to step 3. Change the name.
- If you want to change the number, press **[▲]**. The display returns to step 4. Change the number.



6 Press **Save**.
- To continue storing other items, repeat from step 2.

7 Press **[OFF]**.

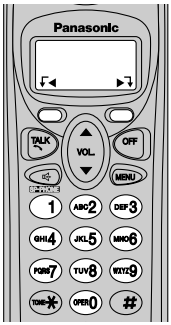
- To store numbers for calling card access (see “Chain Dial” on page 37), we recommend you add pauses after each item. Storing pauses with numbers will prevent misdialing (p. 40). The delay time necessary will depend on your telephone company.

Selecting characters to enter names

Enter names using the dialing buttons. Press each button until the desired character is displayed.

• Pressing each button selects a character in the order shown below.

Keys	Characters	Keys	Characters
[1]	# & ' ( ) ∗ , – . / 1	[6]	m n o M N O 6
[2]	a b c A B C 2	[7]	p q r s P Q R S 7
[3]	d e f D E F 3	[8]	t u v T U V 8
[4]	g h i G H I 4	[9]	w x y z W X Y Z 9
[5]	j k l J K L 5	[0]	0 Space
◀	Erases the character to the left.		
▶	Moves the cursor to the right. (To enter another character using the same number key, move the cursor to the next space.)		

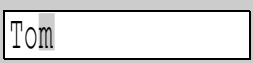


For example, to enter "Tom":

1 Press **[8]** four times.

2 Press **[6]** three times, then press ▶ to move the cursor.

3 Press **[6]** once.



If you make a mistake when entering a name or number

Use ◀ to erase the incorrect character. Each time you press ◀, a character is erased. Re-enter the correct character. To erase all characters, press and hold ◀.

2

3 Scroll
press **[**

Phone book	
1	Al
2	S
3	
4	
5	Telephone numbe

4 Press **[ ]** or **[ ]**.
• The displayed phone numbe

• If "No items stored" is displayed
• To exit the phone book, press **[OFF]**.
• To view a phone number over 16 digits lo
and then **[▼]**. When finished, press **[OFF]**.
• To quickly search the desired item, press **[▼]**

To search for a name by initial

1. Press **Phone book**.
2. Press **Search**.
3. Press the dialing button for the first letter of the
name with the same initial is displayed (see the In
Ex. To find "Frank", press **[3]** repeatedly until the first item
   • If there are no items beginning with the character you sele
   the next alphabetical index will be displayed.
4. Press **[▼]** repeatedly until the desired name is displayed.

Index table

Keys	Index	Keys	Index
[1]	Symbols, 1	**[6]**	M, N, O, 6
[2]	A, B, C, 2	**[7]**	P, Q, R, S, 7
[3]	D, E, F, 3	**[8]**	T, U, V, 8
[4]	G, H, I, 4	**[9]**	W, X, Y, Z, 9
[5]	J, K, L, 5	**[0]**	0, Space

Chain Dial Handset

You can dial a combination of phone book or manual key pad entries while making a call. This feature can be used, for example, to first automatically dial a calling card access number that you have stored in the phone book, then manually or automatically dial your PIN and then automatically dial the destination number from the phone book.

Ex. Using a long distance calling card

- To prevent misdialing, we recommend you add pauses where needed when storing numbers. For example, add pauses after a calling card access number and your PIN when storing in the phone book (p. 34).

1. Search and dial from phone book: 1-800-012-3456 (Calling card access number).
   - The voice guidance may be announced.
2. Search and dial from phone book: 1234 (Calling card PIN).
3. Search and dial from phone book: 1-555-012-3456 (Destination number).

1 **While you are on a call;**
Press **[MENU]**.

2 Press **[1]** to select "1=Phone book".

```
1=Phone book
2=Caller IQ
↓Back
```

3 Search for the desired item by pressing **[▼]** or **[▲]**.
- To search for an item by initial, see page 36.

```
   Phone book
▼▲=Scroll list
↓Back    Search↓
```

4 Press **Call**.
- The phone number is dialed.
- If required, repeat steps 1 to 4 for any remaining numbers.

```
Alan
1-555-012-3456
↓Back      Call↓
```

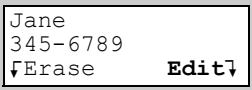
- If you have rotary or pulse service, you need to press **[✱]** before pressing **[MENU]** in step 1 to change the dialing mode temporarily to tone.

Editing an Item in the Phone Book Handset

1 Press **Phone book**.

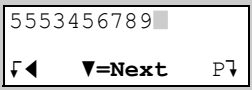
2 Press **Search**.

3 Scroll to the desired item by pressing **[▼]** or **[▲]**, then press **Edit**.
- To search for the item by initial, see page 36.



4 Edit the name (p. 35), then press **[▼]**.
- If you do not need to change the name, press **[▼]** then go to step 5.

5 Edit the phone number, then press **[▼]**.
- If you do not need to change the number, press **[▼]** then go to step 6.
- Each time you press ◀, a digit is erased. To erase all of the digits, press and hold ◀.



6 Press **Save**.
- To continue editing other items, repeat from step 3.

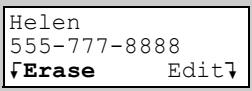
7 Press **[OFF]**.

Erasing an Item in the Phone Book Handset

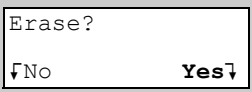
1 Press **Phone book**.

2 Press **Search**.

3 Scroll to the desired item by pressing **[▼]** or **[▲]**, then press **Erase**.
- To search for the item by initial, see page 36.



4 Press **Yes**.
- To erase other items, repeat from step 3.



5 Press **[OFF]**.

- To cancel erasing, press **No** after step 3.

Special Features

Handset Locator Base Unit

You can locate the handset or page the handset user with beep tones from the base unit.

1 Press **[HANDSET LOCATOR]**.

- "IN USE" flashes rapidly. The handset beeps for 1 minute and displays "Call from Base".

2 To stop paging, press **[HANDSET LOCATOR]** again or press any button except **[▼]** or **[▲]** on the handset.

Temporary Tone Dialing
(For Rotary or Pulse Service Users) Handset

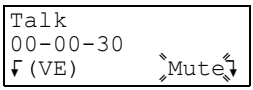
Press **[✳]** (TONE) before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the dialing mode will return to pulse.

Muting Your Conversation Handset

During a call, you can mute your phone so the other party cannot listen to you. When muting your conversation, you can hear the other party.

Press **Mute**.



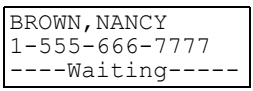
- "Mute" will flash.
- **To release the mute,** press **Mute** again.
- If you press **[ ]** or **[ ]** to switch between the receiver and speaker, the mute will be released.

For Call Waiting Service Users Handset

Press **[FLASH/CALL WAIT]** if you hear a call waiting tone during a conversation.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **[FLASH/CALL WAIT]** again.
- Call Waiting service cannot be used when the first call is put on hold, or the Answering System is handling a call.
- If this function does not operate properly, consult your telephone company for details.

Call Waiting Caller ID display



If you subscribe to both Caller ID and Call Waiting with Caller ID services (CWID), when a second call is received while talking, the second caller's information will be displayed. After you hear a call waiting tone while talking, the display shows the caller's name with the phone number and "----Waiting-----".

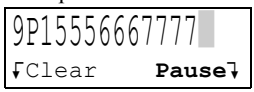
- Contact your telephone company for details about availability in your area, and to verify that CWID is activated on your telephone line.
- The caller's information will only be shown on the display of the handset which is on the outside call.

Using the PAUSE Key

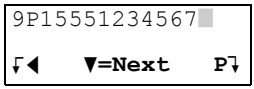
(For PBX Line/Long Distance Calls) Handset

We recommend you press **Pause** or **P** if a pause is required for dial with a PBX or to make a long distance call.

Example



OR



Ex. Line access number **[9]** (PBX)

[9] ➡ **Pause** or **P** ➡ Phone number

- Pressing **Pause** or **P** once creates a 3.5 second pause. This prevents misdialing when you dial after confirming the entered number (p. 24) or dial a stored number (p. 36, 37).
- Pressing **Pause** or **P** more than once increases the length of the pause between numbers.

FLASH Button Handset

Pressing **[FLASH/CALL WAIT]** allows you to use special features of your host PBX such as transferring an extension call, or accessing optional telephone services such as call waiting.

- Pressing **[FLASH/CALL WAIT]** cancels Temporary Tone Dialing mode or the mute (p. 39).

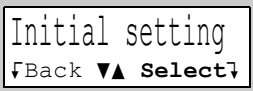
Selecting the flash time

The flash time required depends on your telephone exchange or host PBX. You can select the following flash times: “700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)”. The factory preset is “700 ms”.

- If PBX functions do not work correctly, consult your PBX supplier for the correct settings.

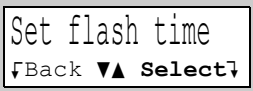
1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.

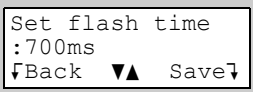


3 Scroll to “Set tel line” by pressing **[▼]** or **[▲]**, then press **Select**.

4 Scroll to “Set flash time” by pressing **[▼]** or **[▲]**, then press **Select**.



5 Select the desired time by pressing **[▼]** or **[▲]**.



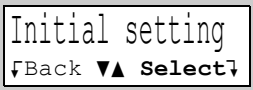
6 Press **Save**, then press **[OFF]**.

Key Tone Handset

You can select whether or not the handset keys will sound tones (key tone, confirmation tone, error tone). The factory preset is ON.

1 Press **[MENU]**.

2 Scroll to "`Initial setting`" by pressing **[▼]** or **[▲]**, then press **`Select`**.



3 Scroll to "`Key tone`" by pressing **[▼]** or **[▲]**, then press **`Select`**.

4 Select "`Off`" or "`On`" by pressing **[▼]** or **[▲]**.

5 Press **`Save`**, then press **[OFF]**.

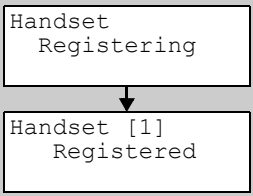
Re-registering the Handset Handset & Base Unit

If "`No link to base. Move closer to base, try again.`" is displayed even when using the handset near the base unit, the handset may have lost communication with the base unit. You need to re-register the handset to the base unit.

- **Make sure the base unit is not being used.**
- **Have both the handset and base unit nearby during registration.**
- **Follow steps 1 and 2 listed below. You have about 1 minute to complete them.**

1 *Base unit:*
Press and hold **[HANDSET LOCATOR]** until a beep sounds.
- The CHARGE indicator flashes.

2 *Handset:*
Press and hold **[FLASH/CALL WAIT]** until "`Handset Registering`" is displayed.
- When registration is complete, a beep sounds from the handset.
- **Wait for 20 seconds after registration is complete while the handset establishes communication with the base unit.**



- If the handset beeps 3 times and "`Error!!`" is displayed, an error occurred. Try again from step 1.
- You can stop registration by pressing **[OFF]** on the handset, and pressing **[HANDSET LOCATOR]** on the base unit.

Automatic Answering Operation

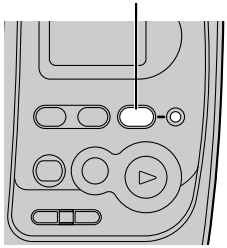
When the unit answers a call, a greeting message is played and the caller's message is recorded.

- The total recording time of all messages (greeting and incoming) is **about 15 minutes**. If messages are recorded in noisy rooms, the time may be shortened by up to 3 minutes.
- To select the caller's recording time, see page 20.
- A maximum of 64 messages (including greeting message) can be recorded.

Setting the Unit to Answer Calls Base Unit

Press **[ANSWER ON]** to turn on the Answering System.

[ANSWER ON] and Indicator



- The indicator lights and the unit announces "Answer set" and current day and time. If "Answer set. Set time" is heard, set the date and time (p. 14).
- The unit will announce the remaining recording time if it is less than 3 minutes.
- When no recording time is available, you will need to erase any unnecessary messages before new messages can be recorded (p. 47). The unit can indicate that memory is full in the following ways:
  — "FULL" will flash on the base unit and the ANSWER ON indicator will flash rapidly until you erase a message.
  — The unit will announce "Memory full" when you press **[ANSWER ON]** or **[GREETING REC]**, and after playing back messages or recording a message.
- If you do not want the unit to answer calls, press **[ANSWER ON]** again to turn off the Answering System. The indicator light goes out and "Answer off" is heard.
- You can also turn on the Answering System remotely from an outside phone (p. 50).
- If you subscribe to Caller ID (p. 27), Caller ID information automatically adjusts the date and time when a call is received, provided you have already set the date and time manually (p. 14).

Handset

1 Press **[MENU]**.

2 Press **Select** at "Message play".

3 Press **[8]** to turn on the Answering System.
- "Answer set" is heard.

4 Press **[OFF]**.

- To turn the Answering System off, press **[0]** in step 3. "Answer off" is heard.

Monitoring Incoming Calls Base Unit

While a caller is leaving a message, you can monitor the call through the base unit speaker.

- To increase the speaker volume while monitoring, press **VOLUME [∧]**.
  To decrease the volume, press **VOLUME [∨]**.

To answer a call while monitoring, press **[ ]** or **[ ]** on the handset.

To turn the incoming call monitoring feature off

When the base unit is not in use, press **[GREETING CHECK]**, then press **VOLUME [∨]** repeatedly until "0" is displayed. (Make sure the Answering System is turned on.)

OR

While monitoring, press **VOLUME [∨]** repeatedly until "0" is displayed.

- If the incoming call monitoring feature is turned off, it will remain off when the next call is monitored.
- If you adjust the speaker volume while playing back messages, the speaker volume for monitoring will be turned on again. To turn the speaker volume off, see "To turn the incoming call monitoring feature off" of above step.

Listening to Messages

Voice Day/Time Stamp: During playback, the unit will announce the day and time when each message was recorded (p. 14).

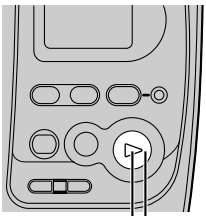
Using the Base Unit Base Unit

You can see the total number of recorded messages on the base unit display. If the NEW MESSAGE indicator flashes on the base unit, new messages have been recorded.

To play back messages

Press **[MESSAGE]**.

- The unit announces the number of new messages and only new messages are played back.
- When you have no new messages, the unit announces "No new messages. All message playback" and plays back all messages.
- When you have no messages, the unit announces "No messages".



[MESSAGE]

NEW MESSAGE Indicator

- During playback, the display shows the message number.
- At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 3 minutes.

Using the Handset (Remote Operation) Handset

If "New message" is displayed on the handset, new messages have been recorded.

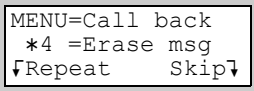
- If the Message Alert is turned on (p. 22), the Ringer/Message Alert indicator on the handset will flash slowly when new messages have been recorded and the handset is not in use.

To play back messages

1 Press **[MENU]**.

2 Press **Select** at "Message play".

- The unit announces the number of new messages and only new messages are played back from the speaker. To switch to the receiver, press **[ ]**. To switch back to the speaker, press **[ ]**.
- When you have no new messages, the unit announces "No new messages. All message playback" and plays back all messages.
- When you have no messages, the unit announces "No messages".
- To play all messages, press **[5]**.
- If you do not press any button, the voice menu will start (see below).



3 To end remote operation, press **[OFF]**.

- If a call is received during playback, the unit rings and playback stops. To answer the call, press **[ ]** or **[ ]**. For playback, start again from the beginning after hanging up.
- At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 3 minutes.
- If you hear "Memory full" after playback, erase unnecessary messages (p. 47).

Voice menu

If you do not press any buttons at the end of the last message, the unit will announce "End of final message" and the voice menu will begin.
The unit announces, "Press 4 to play back new messages. Press 5 to play back all messages."

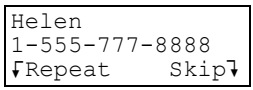
- You can press buttons for other playback options (p. 46) even if the voice menu has started.
- If you do not press any button within 10 seconds after the voice menu, the handset will exit remote operation.

Listening to Messages

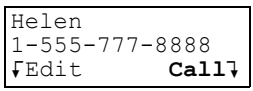
For Caller ID service users (p. 27)
During playback using the handset, the handset display will show the name and/or number of the caller whose message is being played.

To call back the displayed number:

1. During playback, press **[MENU]**.



2. Press **Call**, **[ ]** or **[ ]**.



- The unit stops playback and dials the phone number.
- If you need to edit the phone number to call back, see page 30.

During playback Base Unit Handset

To adjust the speaker volume	*Base unit:* To increase volume, press **VOLUME [∧]**. To decrease volume, press **VOLUME [∨]**. *Handset:* To increase volume, press **[▲]**. To decrease volume, press **[▼]**. • You can also adjust the receiver volume on the handset.
To repeat a message	*Base unit:* Press **[REPEAT]**. *Handset:* Press **Repeat** or **[1]**. • If pressed within the first 5 seconds of playback, the previous message will be played.
To skip a message	*Base unit:* Press **[SKIP]**. *Handset:* Press **Skip** or **[2]**.
To stop playback	*Base unit:* Press **[STOP]**. • To resume playback, press **[MESSAGE]**. • If you do not press any button for 60 seconds or if you press **[STOP]** again, playback mode will be canceled. *Handset:* Press **[9]**. • If you do not press any button within 15 seconds after stopping playback, the voice menu will start (p. 45).

—
—"
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Erase u
after eac

Erasing a

Base Unit

Press **[ERASE]**
to erase is being p

- The unit beeps, then p
- To exit playback mode,

Handset

Press **[✳] [4]** while the mes
erase is being played.

- The unit beeps, then plays back t
- To exit remote operation mode, pres

Erasing all messages

All recorded messages, except the greeting

Base Unit

1 Press **[ERASE]** while the base unit is not bei
- "To erase all messages, press ERASE again" is hear

2 Within 10 seconds, press **[ERASE]** again.
- The unit beeps, then announces "No messages".
- The base unit display shows "0".

Handset

1 Press **[MENU]**.

2 Press **Select** at "Message play".

3 Press **[✳] [5]**.
- The unit beeps, then announces "No messages".
- To end remote operation, press **[OFF]**.

- Information in the Caller List will not be erased. To erase caller information, see page 33.

Remote Operation from a Touch Tone Phone

While outside, you can operate the Answering System from any touch tone phone. A synthesized voice menu will guide you through the Answering System (p. 49).

• To skip the voice menu and operate the unit directly, see page 50.

Summary of remote operation

Call your unit from a touch tone phone.

↓

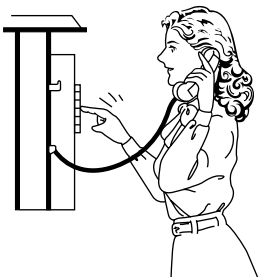
Enter your remote code (see below) during or after the greeting message.
• The number of new messages is heard, and the new messages will be played.*

↓

After 3 seconds, the voice menu will start (p. 49).
Follow the menu or enter direct commands (p. 50).

↓

To end remote operation, hang up.



• The unit will announce the remaining recording time after playback if it is less than 3 minutes.
• The messages are saved.

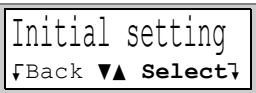
* If "No new messages" is announced, the unit has only old messages.
If "No messages" is announced, the unit has no messages.

Remote Code Handset

The remote code prevents unauthorized people from accessing your unit and listening to your messages. Choose any **2-digit number (00–99)** for your remote code. The factory preset remote code is "**11**". If you do not program your own remote code, you can use "11".

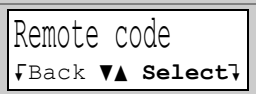
1 Press **[MENU]**.

2 Scroll to "`Initial setting`" by pressing **[▼]** or **[▲]**, then press **`Select`**.

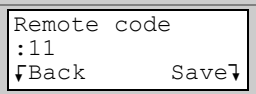


3 Press **`Select`** at "`Set answering`".

4 Scroll to "`Remote code`" by pressing **[▼]** or **[▲]**, then press **`Select`**.



5 Enter a **2-digit remote code (00–99)**.

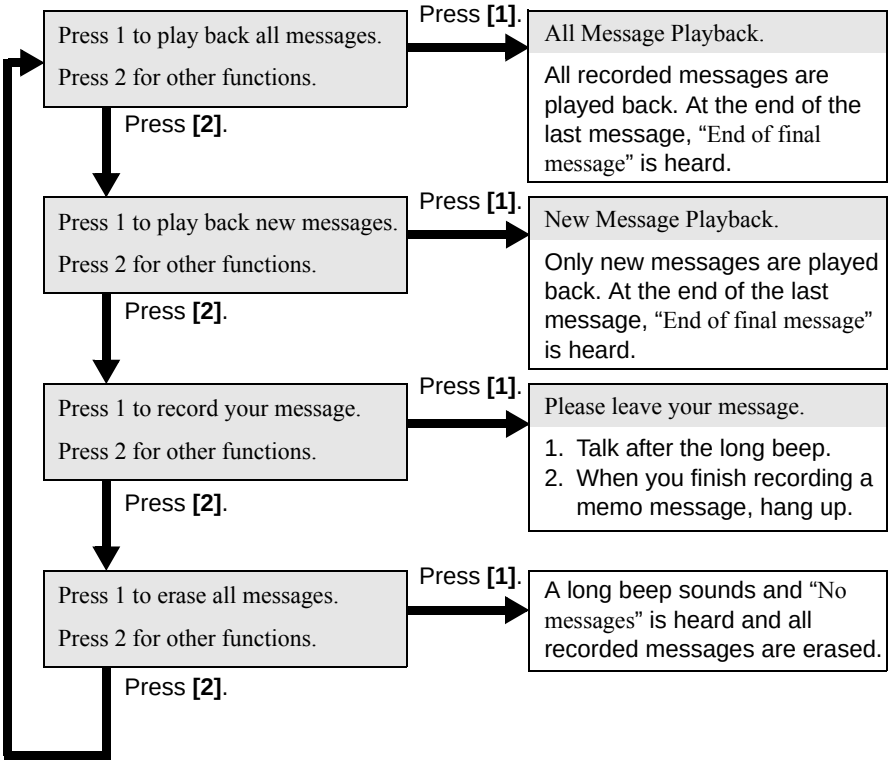


6 Press **`Save`**, then press **[OFF]**.

To confirm the remote code, repeat steps 1 to 4.
• The remote code is displayed. When finished, press **[OFF]**.

Voice Menu

The shaded parts are voice prompts.


Press 1 to play back all messages.
Press 2 for other functions.
Press [1].
All Message Playback.
All recorded messages are played back. At the end of the last message, "End of final message" is heard.
Press [2].
Press 1 to play back new messages.
Press 2 for other functions.
Press [1].
New Message Playback.
Only new messages are played back. At the end of the last message, "End of final message" is heard.
Press [2].
Press 1 to record your message.
Press 2 for other functions.
Press [1].
Please leave your message.
1. Talk after the long beep.
2. When you finish recording a memo message, hang up.
Press [2].
Press 1 to erase all messages.
Press 2 for other functions.
Press [1].
A long beep sounds and "No messages" is heard and all recorded messages are erased.
Press [2].

- 3 seconds after playback, the voice menu will start again from the beginning.
- The unit will announce the remaining recording time after playback if it is less than 3 minutes.
- If you hear "Memory full" after playback, erase unnecessary messages (p. 50).
- If you do not press any buttons within 10 seconds after a voice prompt, "Thank you for your call." will be heard and the call will be disconnected.

Remote Operation from a Touch Tone Phone

Direct Remote Operation

Once you have entered the remote code, you can also control your unit by direct commands instead of using the voice menu. To end remote operation, hang up at anytime.

Direct commands

[4] :	Plays back new messages.
[5] :	Plays back all messages.
[1] :	Repeats the current message. • If pressed within the first 5 seconds of playback, the previous message will be played.
[2] :	Skips the current message.
[9] :	Stops the current operation. • To resume, enter a direct command within 15 seconds, or the voice menu will start (p. 49).
[✳] [4] :	Erases the current message. • A short beep will sound and the next message will be played.
[✳] [5] :	Erases all messages. • A long beep will sound and "No messages" will be heard.
[0] :	Turns off the Answering System. • The unit hangs up.

To turn on the Answering System:

Call your unit and wait for 15 rings.

- The unit will answer and the greeting will be played.
- The Answering System will be turned on. Hang up or enter the remote code for other options.
- When turning on the Answering System using a rotary or pulse service telephone, you cannot enter the remote code for other options.

Skipping the greeting

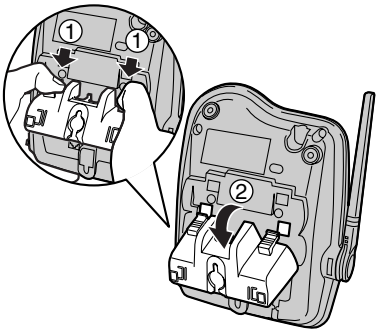
After calling your unit, press **[✳]** during the greeting.

- The unit skips the rest of the greeting and you can start recording your message after the long beep.

Wall Mounting

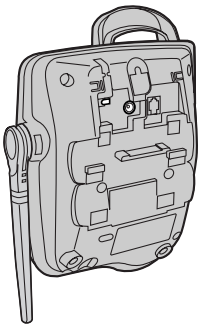
This unit can be mounted on a wall phone plate.

1 Press the tabs in the direction of the arrows (①), then remove the wall mounting adaptor (②).



2 Connect the AC adaptor.

- Fasten the AC adaptor cord to prevent it from being disconnected.



3 Tuck the telephone line cord inside the wall mounting adaptor, then push the adaptor in the direction of the arrows (① and ②) while pressing the tabs.

- The word “UP WALL” should face upward.

4 Connect the telephone line cord. Mount the unit, then slide it down.

- Raise the antenna.

5 **To charge the handset battery:** Place the handset on the base unit.

- The unit beeps once and the CHARGE indicator lights.

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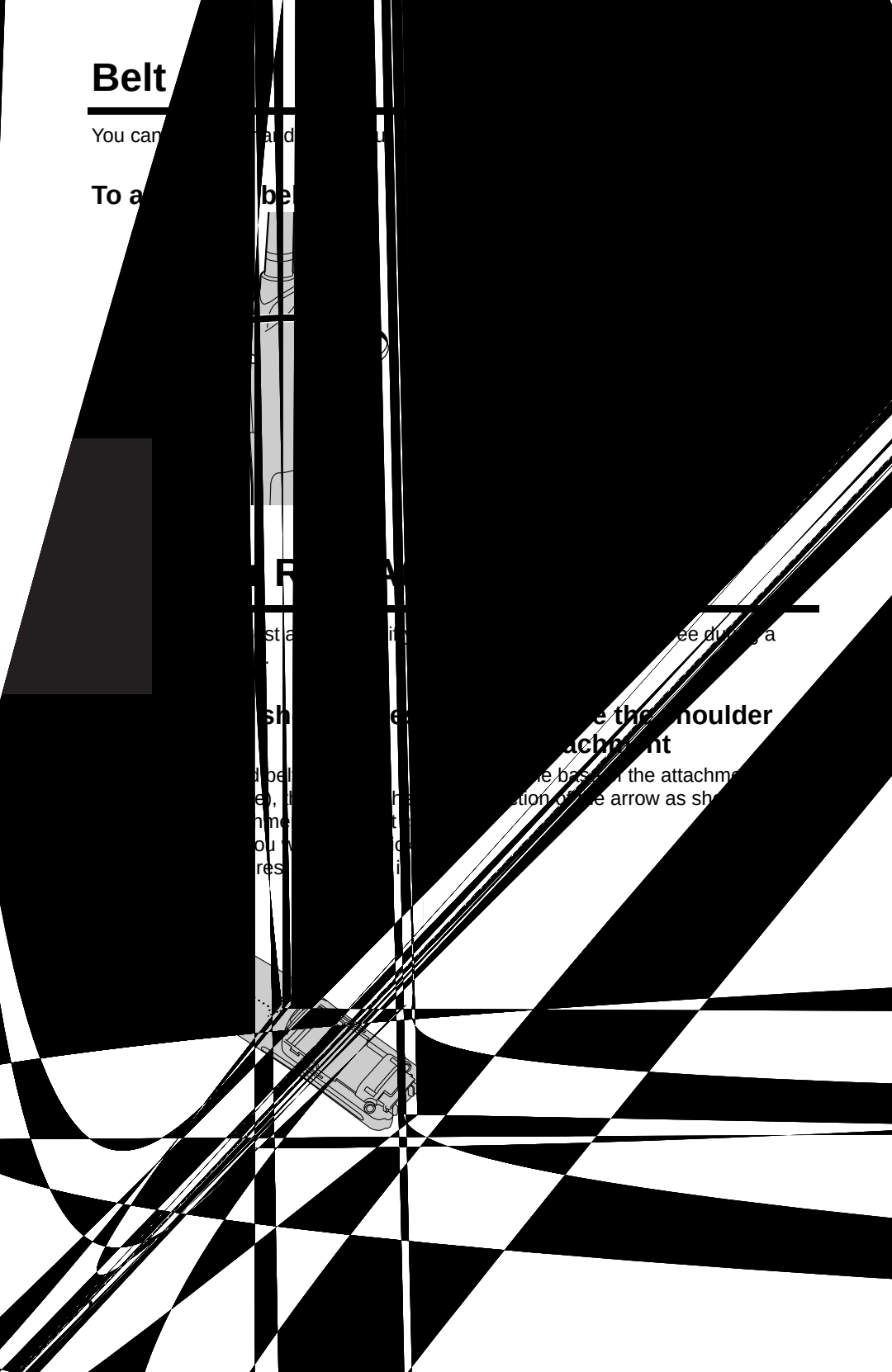
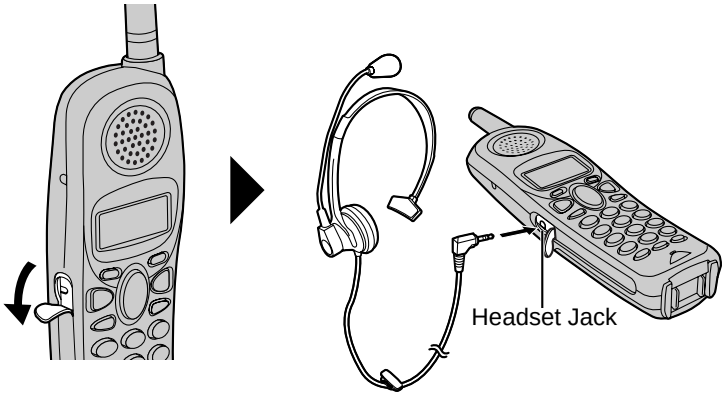


Optional Headset

Connecting an optional headset to the handset allows hands-free phone conversation. Please use only a Panasonic KX-TCA60, KX-TCA86, KX-TCA88, KX-TCA88HA, KX-TCA91, KX-TCA92, or KX-TCA98 headset. To order, call the accessories telephone number on page 2.

Connecting an optional headset

Open the headset jack cover, and insert the headset plug into the headset jack as shown below.



• Headset sold separately. Model shown here is KX-TCA88.

To switch to the speakerphone while using the headset:
Press **[**🔊**]**. To return to the headset, press **[**📞**]**.

Direct Commands

Handset

After pressing **[MENU]**, you can also program menu items directly by pressing (**[0]** to **[9]**, and **[#]**) instead of using the soft keys.

Menu item	Command	Selection items	Page
Ringer volume	**[1] [1]**	**[0]** : Off **[1]** : Low **[2]** : Medium **[3]** : High	p. 17
Ringer tone	**[1] [2]**	**[1]**–**[3]** :Tone pattern 1–3 **[4]**–**[7]** : Melody pattern 1–4	p. 18
Message play	**[2]**		p. 45
Date and time	**[4]**	Go to Step 3 on page 14.	—
Voice enhancer	**[5]**	**[1]** : On **[0]** : Off	p. 25
Activate Caller IQ *1	**[7] [1]**		—
View information *3	**[7] [2]** *4	Go to Step 4 on page 65.	—
Get new information *2	**[7] [3]** *4	Go to Step 4 on page 64.	—
Turn Caller IQ off *2	**[7] [4]** *4		p. 62
Turn Caller IQ on *2	**[7] [5]** *4		p. 62
LCD contrast	**[0] [1]**	**[1]**–**[6]** : Level 1–6	p. 18
Key tone	**[0] [2]**	**[1]** : On **[0]** : Off	p. 41
Auto talk	**[0] [3]**	**[1]** : On **[0]** : Off	p. 16
Caller ID number auto edit	**[0] [4]**	**[1]** : On **[0]** : Off	p. 31
Set dial mode	**[0] [5] [1]**	**[1]** : Pulse **[2]** : Tone	p. 15
Set flash time	**[0] [5] [2]**	**[1]** : 700 ms **[2]** : 600 ms **[3]** : 400 ms **[4]** : 300 ms **[5]** : 250 ms **[6]** : 110 ms **[7]** : 100 ms **[8]** : 90 ms	p. 40
Set line mode	**[0] [5] [3]**	**[1]** : A **[2]** : B	p. 16
Number of rings	**[0] [6] [1]**	**[2]**–**[7]** : 2–7 rings **[0]** : Toll saver	p. 21

Menu item	Command	Selection items	Page
Recording time	**[0] [6] [2]**	**[1]** : 1 minute **[2]** : 2 minutes **[3]** : 3 minutes **[0]** : Greeting only	p. 20
Remote code	**[0] [6] [3]**	Go to Step 5 on page 48.	—
Change language	**[0] [8]**	**[1]** : English **[2]** : Spanish	p. 15
Message alert	**[0] [#]**	**[1]** : On **[0]** : Off	p. 22

During programming:
When "Save" is displayed, press the right soft key **to save the new settings**.
To exit programming, press **[OFF]**.

- If you press the direct command incorrectly, press **[OFF]**, then re-enter programming mode by pressing **[MENU]**.
- For function details, see the corresponding pages.

*1 Can be used to activate Caller IQ. See the leaflet included with this unit for more information.
*2 For openLCR subscribers only.
*3 For openLCR subscribers only. If information is not downloaded to your unit, "Get new Info.?" will be displayed. To download information, see page 64.
*4 After pressing **[7]**, make sure "View Info.?" is displayed, then press the next command.
If Caller IQ is turned off, "Turn CIQ on?" is displayed after pressing **[7]**.

If the Following Appear on Your Display...

The following will be displayed when the unit needs your attention.

Display message	Cause & Remedy
Recharge battery	• The battery needs to be charged. Recharge the battery (p. 10).
Charge for 6h	• The battery has been discharged. The handset will not work. Fully charge the battery (p. 10).
No link to base. Move closer to base, try again.	• The handset has lost communication with the base unit. Walk closer to the base unit and try again or re-register the handset (p. 41). • Confirm the base unit's AC adaptor is plugged in. • Raise the base unit antenna.
Please lift up and try again.	• A handset button was pressed while the handset was on the base unit. Lift the handset and press the button again.
Error!!	• When you tried to re-register the handset, the handset and base unit could not link for some reason, such as interference from electrical appliances. Move the handset and base unit away from any electrical appliances and try again.
Phone book full	• When you tried to store an item in the phone book, the phone book memory was full. Press **[OFF]** to exit the programming mode. To erase other items from the phone book, see page 38.
System is busy. Please try again later.	• The handset has lost communication with the base unit. Walk closer to the base unit and try again. • The Answering System is in use, such as answering a call or playing back messages. Try again later.
Line in use	• A parallel connected telephone is in use.

Troubleshooting

If the handset display shows error messages, see "If the Following Appear on Your Display..." (p. 56) for the Cause & Remedy.

Telephone System

Problem	Cause & Remedy
"No link to base. Move closer to base, try again." is displayed and an alarm tone sounds.	• You are too far from the base unit. Walk closer to the base unit. • Confirm the base unit's AC adaptor is plugged in. • Raise the base unit antenna. • If the above remedies do not solve the problem, the handset may have lost communication with the base unit. Register the handset again (p. 41).
Static, sound cuts in/out, fades. Interference from other electrical units.	• Move the handset and base unit away from other electrical appliances (p. 3). • Walk closer to the base unit. • Raise the base unit antenna.
The handset does not ring.	• The ringer volume is turned off. Set to high, medium, or low (p. 17).
The handset display is blank.	• If only the handset display is blank, fully charge the battery (p. 10).
You cannot program any function items.	• Programming is not possible while the handset and/or base unit is being used. • Do not pause for over 60 seconds while programming. • Walk closer to the base unit. • While another user is listening to messages or the Answering System is handling a call, you cannot program. Try again later.
While programming or searching, the handset starts to ring and the program/ search stops.	• A call is coming in. To answer the call, press **[ ]** or **[ ]**. Start again from the beginning after hanging up.
You cannot make a call.	• Your handset is in remote operation mode (p. 45). Exit by pressing **[OFF]**. • If the handset or base unit is in use, you may not be able to make a call. Try again later.
You cannot redial.	• If the last number dialed was more than 48 digits long, the number will not be redialed correctly.

Troubleshooting

Problem	Cause & Remedy
You cannot make long distance calls.	• Please make sure you have long distance service. • Check if Caller IQ is on. Turn Caller IQ off (p. 62).
The handset does not display the caller's name and/or phone number.	• You need to subscribe to Caller ID. • Other telephone equipment may be interfering with your phone. Disconnect it and try again. • Other electrical appliances connected to the same outlet may be interfering with Caller ID. • Telephone line noise may be affecting Caller ID. • The caller requested not to send his/her Caller ID information (p. 27). • If a (separate) Caller ID box is connected between the unit and the telephone wall jack, disconnect the Caller ID box or plug the unit directly into the wall jack.
The handset cannot automatically edit the Caller List/incoming phone numbers.	• The Caller ID number auto edit feature is turned off. Turn it on (p. 31) and try again. • You need to press **[ ]** or **[ ]** after editing the number.
The handset display exits the Caller List or phone book.	• Do not pause for over 60 seconds while searching.
The Ringer/Message Alert indicator flashes slowly when the handset is not ringing and in use.	• The Message Alert is turned on and new messages have been recorded. Turn the Message Alert off (p. 22) or listen to the new messages (p. 44, 45, 48).
You cannot have a conversation using the headset.	• Make sure the optional headset is connected properly (p. 53). • If "SP-phone" is displayed on the handset, press **[ ]** to switch to the headset.

Answering System

Problem	Cause & Remedy
The Answering System is on, but incoming messages are not recorded.	• The recording time is set to “Greeting only”. Select “1 minute”, “2 minutes” or “3 minutes” (p. 20). • Memory is full. Erase unnecessary messages (p. 47).
“FULL” flashes and the ANSWER ON indicator flashes rapidly. No new messages are recorded.	• Memory is full. Erase unnecessary messages (p. 47).
You cannot operate the Answering System from the base unit or the handset.	• If another user is in use, you may not be able to operate the Answering System. Try again later. • If another user is listening to messages or the Answering System is handling a call, you cannot operate the Answering System. Try again later.
You cannot operate the Answering System from a touch tone phone.	• Make sure you entered the correct remote code (p. 48). • The Answering System may not respond if the tones are too short to activate the unit. Press each button firmly. • The Answering System is off. Turn it on (p. 50).
You cannot erase messages.	• While another user is operating the Answering System or a caller is leaving a message, you cannot erase messages.
When you play back messages or turn on the Answering System, the handset and/or base unit announces the wrong day and time.	• The date and time may be set incorrectly. Set the date and time again (p. 14).

Troubleshooting

General

Problem	Cause & Remedy
The handset and/or base unit does not work.	• Check the settings (p. 9–11). • Check whether the dialing mode setting is correct (p. 15). • Fully charge the battery (p. 10). • Clean the charge contacts and charge again (p. 11). • Check battery installation (p. 10). • Unplug the base unit's AC adaptor to reset it. Plug in, and try again. • Re-install the battery (p. 10) and fully charge it.
"Recharge battery" is displayed, " " flashes, or the handset beeps intermittently.	• Fully charge the battery (p. 10).
"Charge for 6h" and " " are displayed and the handset does not work.	• The battery has been discharged. Fully charge the battery (p. 10). • Check battery installation (p. 10).
You charged the battery fully, but "Recharge battery" is still displayed and/or " " continues to flash, or "Charge for 6h" and " " are displayed.	• Clean the charge contacts and charge again (p. 11). • The battery may need to be replaced. If you install a new battery, fully charge it (p. 10).
The CHARGE indicator does not go out after the battery has been charged.	• This is normal.
If you cannot solve your problem	• Visit our website: http://www.panasonic.com/support • Contact us via the web at: http://www.panasonic.com/contactinfo • Call our customer call center at: 1-800-211-PANA(7262)

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1 Press **[MENU]**.

2 Scroll to "Caller IQ" by pressing
then press **Select**.

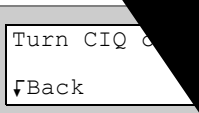
3 Scroll to "Turn CIQ off?" by pressing
[▲], then press **Yes**.
• "Caller IQ off" is displayed.

4 Press **[OFF]**.

To turn Caller IQ on (after it was turned off)

1 Follow steps 1 to 2 of "To turn Caller IQ off" above.

2 Press **Yes** at "Turn CIQ on?".
• "Caller IQ on" is displayed.



3 Press **[OFF]**.

Downloading Data

You can download the following data to your unit from the openLCR web site.

- Phone book data
- Function setup for your unit
- Information such as weather forecasts, stock quotes, lottery results, sports scores and horoscopes (Internet content)

Accessing the openLCR web site can be done from any computer with Internet access.

- While downloading from openLCR, "dL" flashes on the base unit display.

To create data on the openLCR web site

1 Access the openLCR's web site at **www.openLCR.com** and click on the "Manage Account/Login" tab.

2 Enter your Telephone Number and Password, then click Accept.

3 Follow the on-screen instructions.

Phone book data:

- To create the phone book data, enter a name of up to 16 characters, and a phone number of up to 32 digits.
- If you have already stored items into the phone book of the unit, you need to enter all of those stored items again using the openLCR web site. Then, add all new items through the openLCR web site.

Function setup:

- See openLCR's web site for function items available for download.

Information:

- You can select the information which you want to show on the handset display.

- If you have stored items in the phone book of the unit, you also need to store those items on the web site.
- The description on the openLCR web screen is subject to change without notice.

openLCR Service for Caller IQ

To download data from openLCR Handset

Each time you download data (p. 63) from openLCR, the information stored in your unit will be updated. To view up-to-date information, you will need to download it to your unit.

- You can select the items of information on the web site which you want to view.
- Horoscopes are for entertainment purposes only.

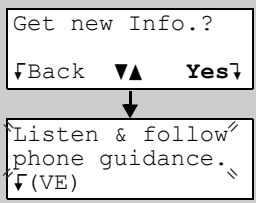
1 Press **[MENU]**.

2 Scroll to "Caller IQ" by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to "Get new Info.?" by pressing **[▼]** or **[▲]**, then press **Yes**.

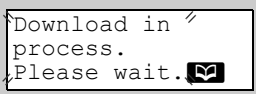
- The unit will dial openLCR automatically.
- A voice prompt will be heard.

If you live in or move from another area to Fort Collins, Colorado, press **[#]** before pressing **Yes**.



4 Follow the voice prompt to start downloading.

- If you have rotary or pulse service, you need to press **[*]** to change the dialing mode temporarily to tone, before following the voice prompt.
- When downloading starts, the display will show the message on the right.
- After downloading starts, the handset must be off hook. DO NOT PLACE the handset on the base unit (placing the handset on the base unit will terminate the download process). DO NOT PRESS **[OFF]** (pressing **[OFF]** will terminate the download process).



5 When downloading is complete, a beep sounds.

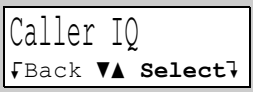
- You can also go to the Caller IQ menu after pressing **[ ]** or **[ ]**. Press **[MENU]**, then **[2]** to select "2=Caller IQ". Follow steps 3 to 5 above.
- If the handset beeps 3 times and "Download incomplete. Try again." is displayed, the unit has lost communication with openLCR. Store items by following the steps below.
  1. Access the openLCR web site.
  2. Go to the web screen to create the data.
     - To download the phone book data, click Re-Download All. Then go to step 3.
  3. Start again from step 1 ("To download data from openLCR").

- If the handset beeps 3 times and "Download incomplete. Phone book full." is displayed, some items could not be stored in the phone book. Store items by following the steps below.
  1. Erase items which do not exist on the web from the phone book of the unit (p. 38).
  2. Access the openLCR web site.
  3. Go to the web screen to create the phone book data.
  4. Click Re-Download All.
  5. Start again from step 1 ("To download data from openLCR" on page 64).
- You cannot access the openLCR server if a telephone or fax machine on the same phone line is in use.
- While the unit is downloading data from openLCR, the Call Waiting Service cannot be used.

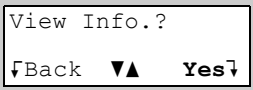
To view information

1 Press **[MENU]**.

2 Scroll to "Caller IQ" by pressing **[▼]** or **[▲]**, then press **Select**.



3 Press **Yes** at "View Info.?".
- The items of information which you selected on the web are displayed.
- If information is not downloaded to your unit, "Get new Info.?" will be displayed. To download information, see page 64.



4 Scroll to the desired information by pressing **[▼]** or **[▲]**.
- You can also select the desired information by pressing dialing buttons.

5 When finished, press **[OFF]** or place the handset on the base unit.

Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
    A. When the power supply cord or plug is damaged or frayed.
    B. If liquid has been spilled into the unit.
    C. If the unit has been exposed to rain or water.
    D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
    E. If the unit has been dropped or physically damaged.
    F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

- The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

FCC and Other Information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:ACJ-----.
If requested, this number must be provided to the telephone company.

Registration No. ..... (found on the bottom of the unit)
Ringer Equivalence No. (REN) 0.1B

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the

WHEN PROGRAMMING EMERGENCY NUMBERS AND(OR) MAKING TEST CALLS TO EMERGENCY NUMBERS:
1) Remain on the line and briefly explain to the dispatcher the reason for the call.
2) Perform such activities in the off-peak hours, such as early morning or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this phone.

CAUTION:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.
Operating near 2.4GHz electrical appliances may cause interference. Move away from the electrical appliances.

FCC RF Exposure Warning:
This product complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF exposure requirements the base unit must be installed and operated with its antenna located 20 cm or more between antenna and all person's body (excluding extremities of hands, wrist and feet). The handset unit may be carried and operated with only the specific provided belt-clip. Other non-tested belt-clips or similar body-worn accessories may not comply and must be avoided. The base and handset units must not be co-located or operated in conjunction with any other antenna or transmitter.

FCC and Other Information

This equipment is hearing aid compatible as defined by the FCC in 47 CFR Section 68.316.

When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

A TIA/EIA-IS-968 compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack that is also TIA/EIA-IS-968 compliant.

The software contained in this equipment to allow user access to the network must be ungraded to recognize newly established network area codes and exchange codes as they are placed into service.

Failure to upgrade the premises systems or peripheral equipment to recognize the new codes as they are established will restrict the customer and the customer's employees from gaining access to the network and to these codes.

- **Environment** — do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Medical** — consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 2400MHz to 2481MHz, and the power output level can range 0.04 to 0.1 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult your telephone company.

Index

A

Accessories 2
Answering calls 26
Answering System 42
Auto talk 16, 26

B

Backlit LCD 25
Base unit location 3
Battery charge 3, 10
—Battery information 11
Battery replacement 11
Battery strength 10
Belt clip 52

C

—Call monitoring 43
Call Waiting Caller ID display . . . 39
Call waiting tone 39
—Caller ID number auto edit 31
Caller ID service 14, 27
Caller IQ 62
Caller List, editing 30
Caller List, erasing 33
Caller List, storing 32
Caller List, viewing 28
Calling back from the Caller List . 29
—Chain Dial 37

D

—Date and time 14
Dialing mode 15
Direct commands 54, 55
Display language 15

E

Erasing a message 47, 50
Erasing all messages 47, 50
Error messages 56

F

FCC and other information 68
FLASH button 40
Flash time 40
—Function menu, Direct commands 54
Function menu, selection 12
Function menu, table 13

G

—Greeting message 19

H

Handset locator 39
Headset, optional 53
Hold 24

I

Installation, AC adaptor 9
Installation, battery 10
Installation, telephone line cord . . . 9

K

Key Tone 41

L

LCD contrast 18
Lighted handset keypad 25
Line mode 16
Listening to messages . . . 44, 45, 48
Location of controls 6, 7

M

Making calls 23, 24
—Message alert 22
Message storage 20
Microphone, base unit 19
Microphone, handset 23
—Monitoring incoming calls 43
Mute 39

N

Navigator key 8
Noise 3
Number of rings 21

O

openLCR 62

Index

P

Pause 40
—Phone book 34
Phone book, dialing 36
Phone book, downloading 64
Phone book, editing 38
Phone book, erasing. 38
Phone book, names 35
Phone book, storing 34
Power failure. 9, 14, 20
Pulse service 39

R

Recording time 20
Redial 24
Redial list 24
—Registration 41
Remote code 48
Remote operation, handset 45
Remote operation,
touch tone phone 48
Ringer off 17, 26
Ringer tone 18
Ringer volume 17
Rotary service, tone dialing 39

S

Safety instructions 66
Shipping product
for service. . . . . Back Cover
Shoulder rest attachment 52
Soft keys 8
Specifications 75
SP-phone 23

T

Toll saver 21
Troubleshooting,
Answering System 59
Troubleshooting, general 60
Troubleshooting, openLCR Service
for Caller IQ 61
Troubleshooting,
Telephone System 57
TTY. . . . . 2, 74, Back Cover

V

VE (Voice Enhancer) *25*
—Voice enhancer technology 25
Voice menu 45, 49
Volume control, base unit 46
Volume control, handset 24, 46

W

Wall mounting 51
Warranty 73

• “—” indicates important information and frequently used features.

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA
One Panasonic Way
Secaucus, New Jersey 07094

PANASONIC SALES COMPANY, DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO, INC.,
Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

Panasonic Telephone Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Parts	Labor
One (1) Year	One (1) Year

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts. You must mail-in your product during the Limited Warranty period. This Limited Warranty excludes both parts and labor for batteries, antennas, and cosmetic parts (cabinet). This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new.

Mail-In Service

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Services Company Customer Servicenter
Suite B 4900 George McVay Drive McAllen, TX 78503

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

For Limited Warranty service for headsets if a headset is included with this product please call Panasonic Call Center at 1-800-211-PANA (7262).

When shipping the unit carefully pack, include all accessories, and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone number where you can be reached.

IF REPAIR IS NEEDED DURING THE LIMITED WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, lost calls or messages, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

http://www.panasonic.com/support

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at: 1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY : 1-877-833-8855

Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

http://www.pasc.panasonic.com

or, send your request by E-mail to:

npcparts@panasonic.com

You may also contact us directly at:
1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)
(Monday - Friday 9 am to 8 pm, EST.)
Panasonic Services Company
20421 84th Avenue South, Kent, WA 98032
(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY : 1-866-605-1277

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company
Factory Servicenter:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park,
Carolina, Puerto Rico 00985
Phone (787)750-4300, Fax (787)768-2910

Specifications

■ **Base Unit**

Power Supply:	AC Adaptor (120 V AC, 60 Hz)
Power Consumption:	Standby: Approx. 2.1 W Maximum: Approx. 5.0 W
Frequency:	2.40 GHz – 2.48 GHz
Dimensions (H x W x D):	Approx. 124 mm x 155 mm x 174 mm (4 7/8" x 6 3/32" x 6 27/32")
Mass (Weight):	Approx. 390 g (0.86 lb.)

■ **Handset**

Power Supply:	Ni-MH battery (3.6 V, 830 mAh)
Frequency:	2.40 GHz – 2.48 GHz
Dimensions (H x W x D):	Approx. 208 mm x 52 mm x 39 mm (8 3/16" x 2 1/16" x 1 17/32")
Mass (Weight):	Approx. 190 g (0.42 lb.)
Security Codes:	1,000,000

■ **Dialing Mode:** Tone (DTMF)/Pulse

■ **Operating Environment:** 5 °C – 40 °C (41 °F – 104 °F)

Specifications are subject to change without notice.

For your future reference

Serial No. _____ Date of purchase _____

(found on the bottom of the unit)

Name and address of dealer _____